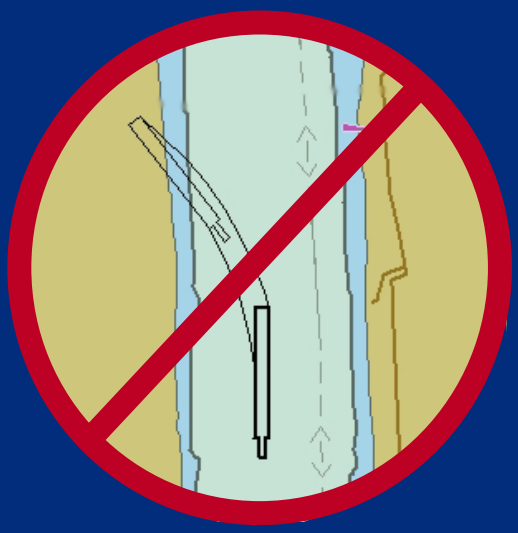
Photo by William Alden III

CEACT Channel Navigation Software Suite



STOP OVERSTEER

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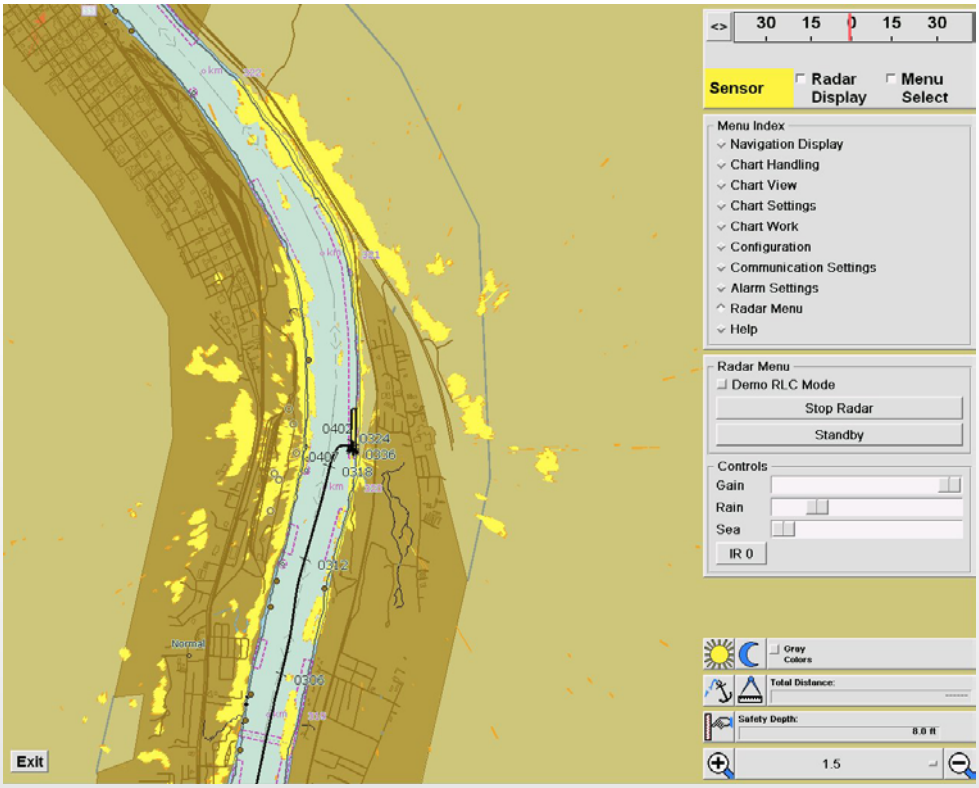
CEACT – more than just an electronic version of a paper chart

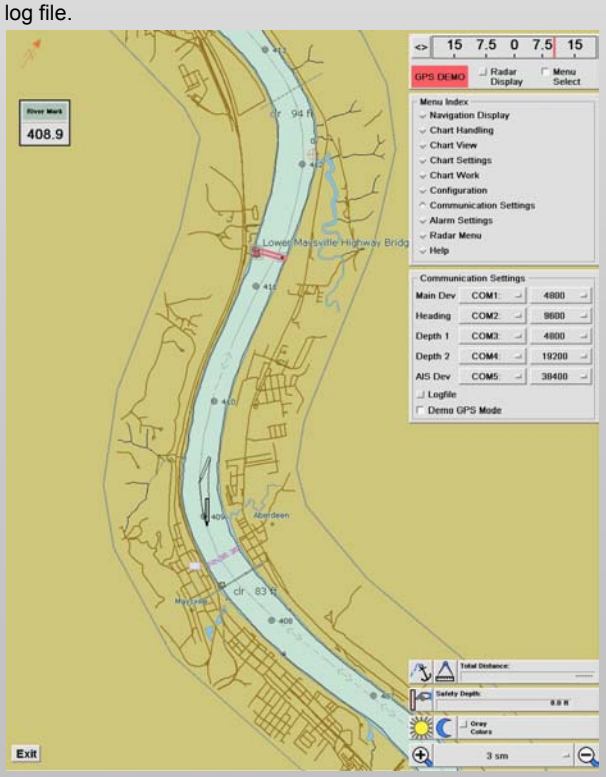


Radar Overlay

Radar Overlay menu contains slider & button controls allowing the operator to adjust gain, rain clutter, sea clutter and interference rejection. The radar overly option requires special hardware. Also featured here is the Sensor Quality indicator. Red indicates bad or no GPS data and it is also used for Demo Mode. Amber indicates Good GPS data being received. Green indicates DGPS or Corrected GPS signals are being received.

Channel View with Portrait Mode Displays

Portrait mode is automatically configured if the customer chooses to use a portrait style display and can provide an exceptional long range view of the channel. The Communications Settings menu presently accommodates up to 5 separate communication channels for the Main GPS Device, Heading, 2 Depth Sounders, and a future AIS port. The Logfile Button when selected saves the logs to a to a sensor. log file.

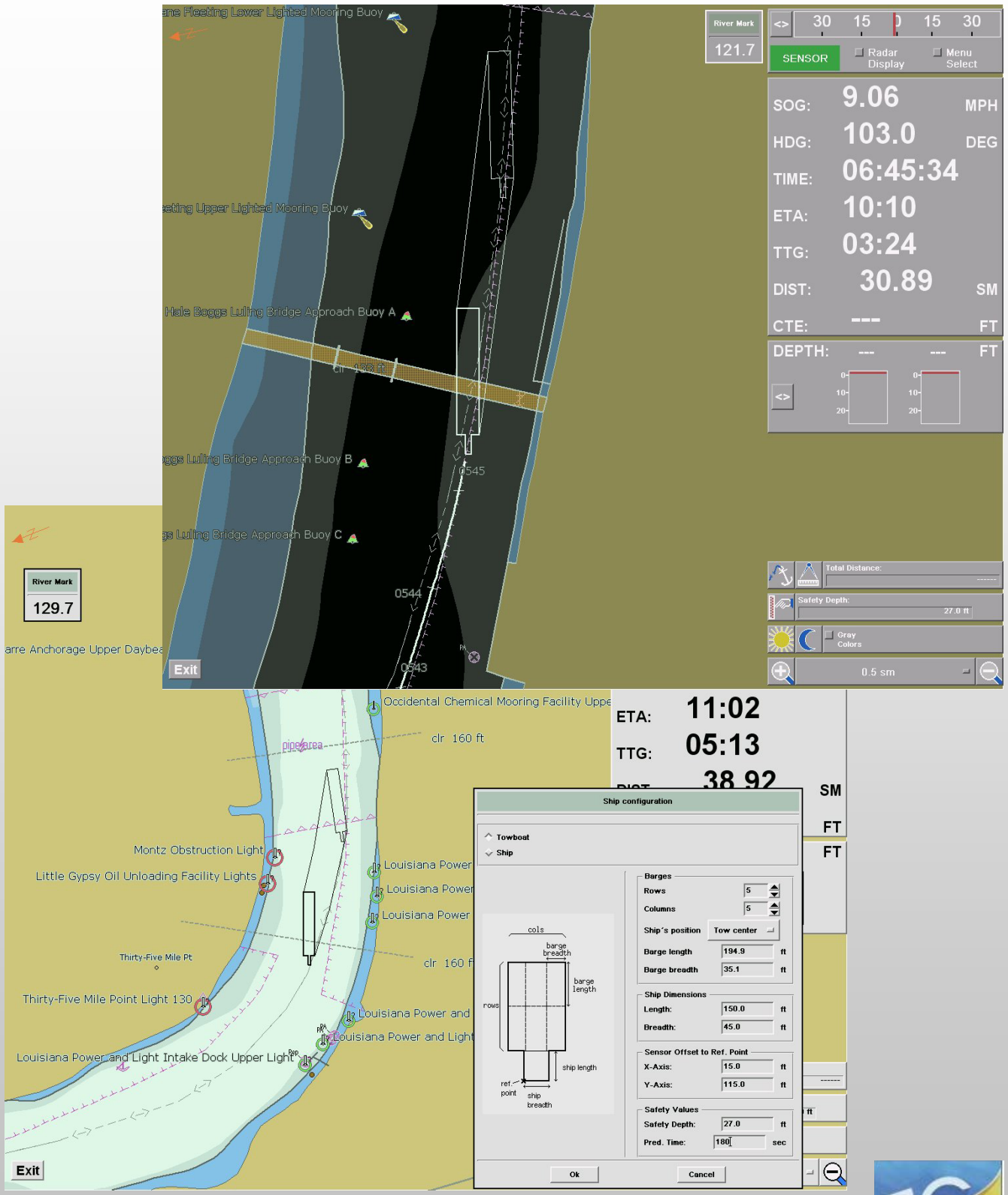


Adding user objects

The Chart Work Menu makes adding features to the chart such as buoys, lights and dolphins quick and simple. The Special Objects function has been selected and Text Annotation is being added to identify the bridge that had also been drawn previously using the Insert User Object feature. Objects such as buoys and lights use the same symbol set as the chart but are shown on a square mat so they are not mistaken as official chart objects. Information that has been created by the user can be saved to disk and reloaded at a later date and can be appended.

NightVue Chart Color Settings & Depth Contours

Five different color settings are available to accommodate day and night use and are selected with the sun and moon menu keys. In this example the Safety Depth has been set to 27 feet Charcoal and Black indicate the survey depth is greater than 27 feet. The survey depth of the blue areas are less than 27 feet. When connected the depth indicators would display the port and starboard depth in feet or meters. In the upper right hand corner of each display is the Rate of Rotation Indicator with 3 scale settings, 0-15, 0-30 and 0-60 degrees per minute.



Channel Text Orientation, Ship Configuration and Chart Scale

CEACT provides automatic text orientation to reduce text clutter based on the ships heading and large or small text can be selected in the chart settings menu. The Ship's Configuration menu shown above allows ship and barge information to be edited. The ship and barge information is displayed in true scale. The Units menu, (not shown here) allows the user to display the chart features and ship configuration in Statute Miles,ft / Nautical Miles, ft or Kilometers,meters.

CEACT

CHARTWORLD

Nautical Publications & Digital Charts for Deep Sea and Inland Navigation.

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CEACT INFORMATION SYSTEMS

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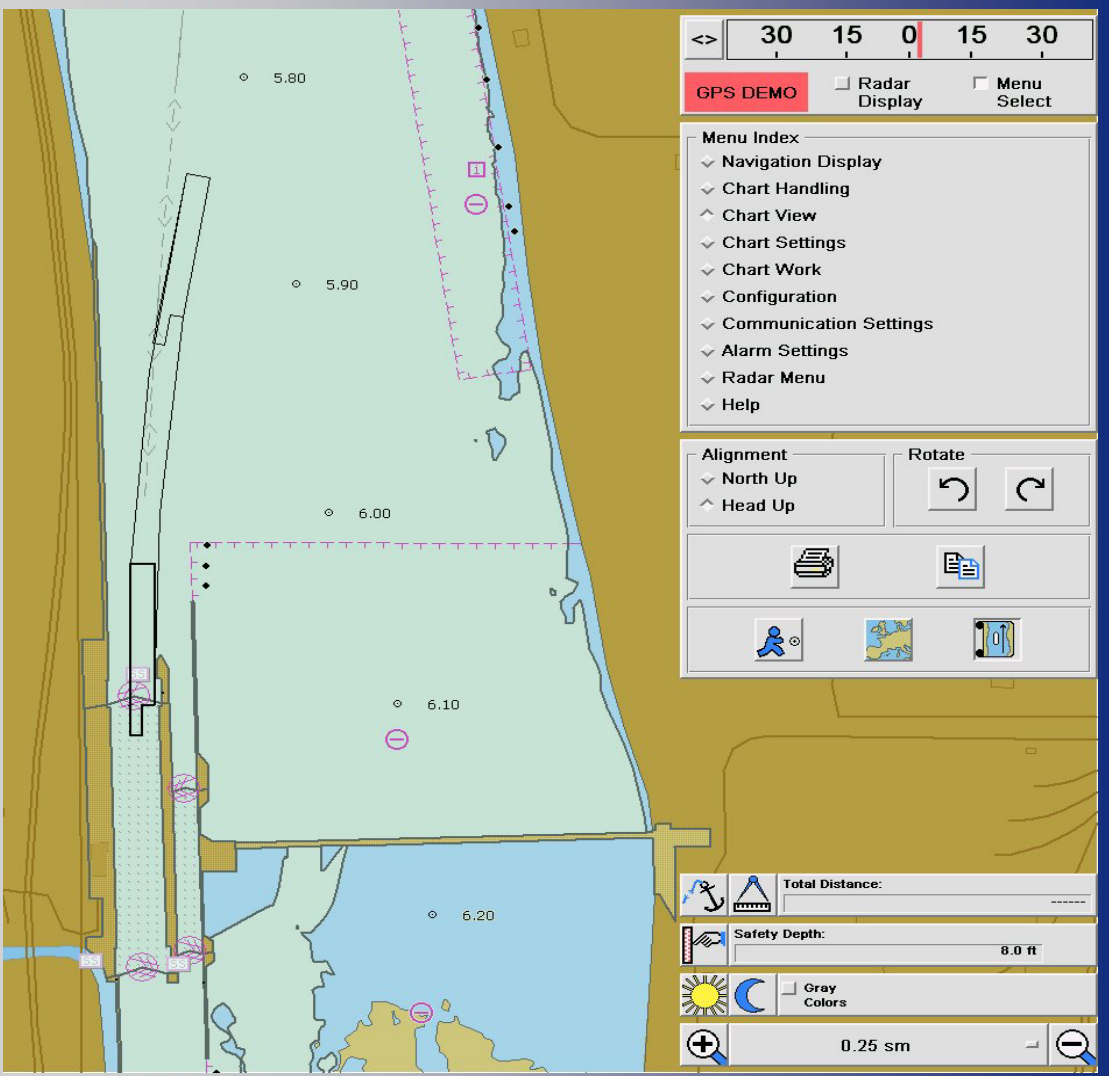
Channel ECDIS, AIS & Course Trajectory, (CEACT)

A software suite of digital maritime navigation tools designed to enhance real time navigational awareness and improve steering efficiency, especially in areas of restricted maneuverability such as channels.

Course Predictions Reduce Over Steer, increasing speed and profit

As the pilot departs Emsworth Lock in Pittsburgh the course prediction shows where the vessel will be in 120 seconds. The prediction is calculated in real time using data from GPS and Heading Sensors and can be used to reduce oversteer thereby increasing vessel speed and Ton Miles per day. The chart View Menu selected in this screenshot shows the Heads Up (selected) and North Up Display Modes. Other features include Chart Rotation, Print Screen, Copy to Clipboard, Go to Point, Chart Overview, and Auto Chart Scroll.



CEACT Software Features:

- Chart Handling compatible with S57 or Direct ENC
- Heads Up & North Up display modes
- Display center and offcenter functions
- User selectable scaling, SM, NM, KM
- Channel Text Orientation to reduce text clutter
- Portrait and Landscape display modes
- Large or Small text size
- Automatic Chart Feed
- True Scale Ship and Barge Towbuilding menu
- Barge column & tow center ships position menu
- NightVue color and intensity control, 5 levels
- User definable objects and navigation symbols
- Past track line
- Safety depth setting
- Chart install and Update from on screen menu
- Accepts industry standard NMEA sensor data
- Real Time adjustable course prediction
- Rate of Turn Indicator
- Easy to use on screen menus and chart tools
- Single and dual depth display
- Sensor Data archive backup
- Online User Manual